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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: February 1, 2005, 13:18:03 ; Search time 28.5 Seconds  
 (without alignments)  
 2694.605 Million cell updates/sec

Title: US-10-659-782A-11

Perfect score: 1030

Sequence: 1 actctggatgggttgtttt.....tgggagcgaggagggtgggg 579

Scoring Table: BL0S062

Xgapext	10.0	Xgapext	0.5
Ygapop	10.0	Ygapext	0.5
Fgapop	6.0	Fgapext	7.0
Delop	6.0	Deletxt	7.0

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 956278

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Command line parameters:  
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 -O:/cgn2\_1/p2pto/spool/p/US10659782/runat\_01022005\_130353\_14282/abb/query.fasta\_1.775  
 -DB=Issued\_Patents\_AA -OFILE=fasarr -SUFFIX=rai -MINMATCH=0 -LOOPCT=0  
 -LOOPEXT=0 -UNITS=5its -BITS=START=1-END=1 -MATRIX=bloom62 -TRANS=human40.cdi  
 -LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
 -NODE=LOCAL -OUTFMT=pro -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000  
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 -NO\_MMAPP -LARGEQUERY -NEG SCORE=0 -WAIT -DSFBLOCK=100 -LONGLOG  
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 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:  
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 2: /cgn2\_6/p2odata/1/iaa/5B\_COMBO.pep:  
 3: /cgn2\_6/p2odata/1/iaa/6A\_COMBO.pep:  
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 6: /cgn2\_6/p2odata/1/iaa/backfile1.pep:  
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	326	31.7	117	3	US-08-822-897C-2
3	326	31.7	117	4	US-09-608-104-4
4	326	31.7	117	4	US-09-404-417A-2
5	326	31.7	117	4	US-10-140-002-442
C 6	117	11.0	181	4	US-09-252-991A-30548
C 7	110.5	10.4	159	4	US-09-252-991A-30548
C 8	110.5	10.7	550	4	US-09-616-289-47
9	109.5	10.6	355	4	US-08-484-533-41
10	109.5	10.6	355	3	US-09-283-471A-41
11	109.5	10.6	355	5	PCT-US91-06532-3
C 12	108	10.1	174	4	US-09-252-991A-19399

Sequence 24452, A  
 Sequence 20615, A  
 Sequence 17910, A  
 Sequence 7836, AP  
 Sequence 17018, A  
 Sequence 17391, A  
 Sequence 30154, A  
 Sequence 19786, A  
 Sequence 41, Appl  
 Sequence 41, Appl  
 Sequence 3, Appl  
 Sequence 43, Appl  
 Sequence 31481, A  
 Sequence 22335, A  
 Sequence 18964, A  
 Sequence 32877, A  
 Sequence 19087, A  
 Sequence 32633, A  
 Sequence 1644, A  
 Sequence 28157, A  
 Sequence 3485, A  
 Sequence 18853, A  
 Sequence 31484, A  
 Sequence 24671, A  
 Sequence 19862, A  
 Sequence 31869, A  
 Sequence 19417, A  
 Sequence 22704, A  
 Sequence 23046, A  
 Sequence 24899, A  
 Sequence 20649, A  
 Sequence 27004, A

ALIGNMENTS

RESULT 1  
 US-09-046-479-2  
 ; Sequence 2, Application US/09046479  
 ; Patent No. 6291653  
 ; GENERAL INFORMATION:  
 ; /APPLICANT: Sheppard, Paul O.  
 ; /TITLE OF INVENTION: MOTILIN HOMOLOGS  
 ; /NUMBER OF SEQUENCES: 7  
 ; /CORRESPONDENCE ADDRESS:  
 ; /ADDRESSEE: ZymoGenetics, Inc.  
 ; /STREET: 1201 Bastikie Avenue East  
 ; /CITY: Seattle  
 ; /STATE: WA  
 ; /COUNTRY: USA  
 ; /ZIP: 98102  
 ; /COMPUTER READABLE FORM:  
 ; /MEDIUM TYPE: Diskette  
 ; /COMPUTER: IBM Compatible  
 ; /OPERATING SYSTEM: DOS  
 ; /SOFTWARE: FASTSEQ for Windows Version 2.0  
 ; /CURRENT APPLICATION DATA:  
 ; /APPLICATION NUMBER: US/09/046,479  
 ; /FILING DATE:  
 ; /CLASSIFICATION:  
 ; /PRIOR APPLICATION DATA:  
 ; /APPLICATION NUMBER:  
 ; /FILING DATE:  
 ; /ATTORNEY/AGENT INFORMATION:  
 ; /NAME: Sew-Blaik, Deborah A  
 ; /REGISTRATION NUMBER: 37,438  
 ; /REFERENCE DOCKET NUMBER: 97-04  
 ; /TELECOMMUNICATION INFORMATION:  
 ; /TELEPHONE: 206-441-6672  
 ; /TELEFAX: 206-442-6678  
 ; /TELEX:

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 117 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-09-046-479-2

Alignment Scores:

Pred. No.:	Length:	Score:	Percent Similarity:	Best Local Similarity:	Query Match:	DB:
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	Matches:	74	Conservative:	1		
	Mismatches:	0	Best Local Similarity:	53.19%		
	Indels:	66	Query Match:	52.48%		
	Gaps:	1	DB:	31.65%		

US-10-659-782a-11 (1-579) × US-09-046-479-2 (1-117)

Qy	112 ATGCCCTCCCAAGGACGTCTGCACCTCTGGCTGGCATGCTCGCTGGACTTG 171	Db	1 MetProSerProDlyPrlyValCysSerLeuIleuLeuLuglyMetLeuTrpLeuAspLeu 20	Qy	172 GCGATGGAGGTCCAGCTTCTGAGCCCTGAACACCAAGAGTCAGGTGAGACCTCCC 231	Db	21 AlaMetAlaGlySerSerPhaLeuSerProIluLysGlnArgValGln-Gln----- 37	Qy	232 CACAAAGCCCCACATGGTTGTTCCAGGCCCTGCCACATTAGAACCGCTCTGACCTGGAG 291	Db	37 ----- 37	Qy	292 CAGCAGGCCATCTCTGGCTTCAGTCCTCTCCAGAGAACAAANGACTCTGGSTCTCAC 351	Db	37 ----- 37	Qy	352 CTOACTGTTCTGGAAGGACATGGGGCTTAGAGCTCTAAACAGACTGTTCCCCCTTC 411	Db	37 ----- 37	Qy	412 AGCAGAGAAGAGGTGAGAAGGCCAACCCGAGCTGAGGCCGAGCTTAGCAGCT 471	Db	38 -----ArglyGluSerLysBpProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56	Qy	472 GGCTCCGCCCGGAAGTGGAGGTCAAGCAGAACGGGCHAGGATGAACTGGAAAGTCGG 530	Db	56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75	RESULT 2	US-08-822-897C-2	Db	37 ----- 37	Qy	412 AGCAGAGAAGAGGTGAGAAGGCCAACCCGAGCTGAGGCCGAGCTTAGCAGCT 471	Db	38 -----ArglyGluSerLysBpProAlaLeuAlaLeuAlaGlyT 56	Qy	472 GGCTCCGCCCGGAAGTGGAGGTCAAGCAGAACGGGCHAGGATGAACTGGAAAGTCGG 530	Db	56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75	RESULT 3	US-09-608-810A-4	Db	37 ----- 37	Qy	412 AGCAGAGAAGAGGTGAGAAGGCCAACCCGAGCTGAGGCCGAGCTTAGCAGCT 471	Db	38 -----ArglyGluSerLysBpProAlaLeuAlaLeuAlaGlyT 56	Qy	472 GGCTCCGCCCGGAAGTGGAGGTCAAGCAGAACGGGCHAGGATGAACTGGAAAGTCGG 530	Db	56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75	GENERAL INFORMATION:	SEQUENCE 4, Application US/09608810A	Patent No. 6420521	GENERAL INFORMATION:	SEQUENCE 4, Application US/09608810A	Patent No. 6420521
GENERAL INFORMATION:	APPLICANT: Sheppard, Paul O.	APPLICANT: Sheppard, Paul O.	APPLICANT: Sheppard, Paul O.	APPLICANT: Sheppard, Paul O.																																																					
APPLICANT: Deisher, Theresa A.	APPLICANT: Jaspers, Stephen R.	APPLICANT: Jaspers, Stephen R.	APPLICANT: Deisher, Theresa A.	APPLICANT: Deisher, Theresa A.																																																					
TITLE OF INVENTION: MOTILIN HOMOLOGS	BISHOP, Paul D.	BISHOP, Paul D.	BISHOP, Paul D.	BISHOP, Paul D.																																																					
NUMBER OF SEQUENCES: 7	TITLE OF INVENTION: SGIP PEPTIDES	TITLE OF INVENTION: SGIP PEPTIDES	TITLE OF INVENTION: SGIP PEPTIDES	TITLE OF INVENTION: SGIP PEPTIDES																																																					
CORRESPONDENCE ADDRESS:	FILE REFERENCE: 99-51	FILE REFERENCE: 99-51	FILE REFERENCE: 99-51	FILE REFERENCE: 99-51																																																					
ADDRESSEE: ZymoGenetics, Inc.	CURRENT APPLICATION NUMBER: US/09/608,810A	CURRENT APPLICATION NUMBER: US/09/608,810A	CURRENT APPLICATION NUMBER: US/09/608,810A	CURRENT APPLICATION NUMBER: US/09/608,810A																																																					
STREET: 1201 Eastlake Avenue East	CURRENT FILING DATE: 2000-06-30	CURRENT FILING DATE: 2000-06-30	CURRENT FILING DATE: 2000-06-30	CURRENT FILING DATE: 2000-06-30																																																					
CITY: Seattle	PRIOR APPLICATION NUMBER: 60/141,592	PRIOR APPLICATION NUMBER: 60/141,592	PRIOR APPLICATION NUMBER: 60/141,592	PRIOR APPLICATION NUMBER: 60/141,592																																																					
STATE: WA																																																									
ZIP: 98102																																																									
COUNTRY: USA																																																									
GENERAL INFORMATION:	COMPUTER READABLE FORM:	COMPUTER READABLE FORM:	COMPUTER READABLE FORM:	COMPUTER READABLE FORM:																																																					
APPLICANT: Sheppard, Paul O.	MEDIUM TYPE: Diskette	MEDIUM TYPE: Diskette	MEDIUM TYPE: Diskette	MEDIUM TYPE: Diskette																																																					
OPERATING SYSTEM: DOS	COMPUTER: IBM Compatible	COMPUTER: IBM Compatible	COMPUTER: IBM Compatible	COMPUTER: IBM Compatible																																																					
SOFTWARE: FastSEQ for Windows Version 2.0	OPERATING SYSTEM: DOS	OPERATING SYSTEM: DOS	OPERATING SYSTEM: DOS	OPERATING SYSTEM: DOS																																																					
CURRENT APPLICATION DATA:																																																									
APPLICATION NUMBER: US/08/822, 897C																																																									
FILING DATE:																																																									
CLASSIFICATION: 536																																																									

PRIOR FILING DATE: 1999-06-30  
 NUMBER OF SEQ ID NCS: 7  
 SOFTWARE: FastSEQ for Windows Version 3.0  
 SEQ ID NO: 4  
 LENGTH: 117  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 FEATURE: SIGNAL  
 LOCATION: (1)...(23)  
 US-09-608-810A-4

Alignment Scores:  
 Pred. No.: 1.57e-25 Length: 117  
 Score: 326.00 Matches: 74  
 Percent Similarity: 53.19% Conservative: 1  
 Best Local Similarity: 52.48% Mismatches: 0  
 Query Match: 31.65% Indels: 66  
 DB: 4 Gaps: 1

US-10-659-782A-11 (1-579) x US-09-404-417A-2 (1-117)

Qy 112 ATGCCCTCCCAAGGACCAGCTCTGAGCTCTGGCATGGCTCTGGCTCTGGACTTG 171  
 Db 1 MetProSerProGlyThrValCysSerLeuLeuGlyMetLeuTripleAspLeu 20

Qy 112 ATGCCCTCCCAAGGACCAGCTCTGAGCTCTGGCATGGCTCTGGCTCTGGACTTG 171  
 Db 1 MetProSerProGlyThrValCysSerLeuLeuGlyMetLeuTripleAspLeu 20

Qy 172 GCCATGCCAGCTCCAGCTCTGAGCCCGAACACAGAGTCAGGTGAGACCTCCC 231  
 Db 21 AlaMetAlaGlySerSerPheLeuSerPheLeuSerProGluHisGlnArgValGln-Gln----- 37

Qy 232 CACAAAGCCCCACATGTTGCTGCOACTAGCACCAAGGCTCTGGTCTGAC 351  
 Db 37 ----- 37

Qy 292 CAGCAGGCCATCTGGCATCTGGTTCAAGCTCTCCAGGCAACAAGGACTCTGGTCTGAC 351  
 Db 37 ----- 37

Qy 352 CTCACTGTTCTGGAGGACATGGGGCTTAGAGTCCTAACAGACTGTTCCCTTCC 411  
 Db 37 ----- 37

Qy 172 GCCATGCCAGCTCCAGCTCTGAGCCCGAACACAGAGTCAGGTGAGACCTCCC 231  
 Db 21 AlaMetAlaGlySerSerPheLeuSerPheLeuSerProGluHisGlnArgValGln-Gln----- 37

Qy 232 CACAAAGCCCCACATGTTGCTGAGCCGACTTACGAAACAGCTCTGTAAC 291  
 Db 37 ----- 37

Qy 292 CAGCAGGCCATCTGGCTTAGAGTCCTAACAGACTGTTCCAGGCAACAAGGACTCTGGTCTGAC 351  
 Db 37 ----- 37

Qy 352 CTCACTGTTCTGGAGGACATGGGGCTTAGAGTCCTAACAGACTGTTCCCTTCC 411  
 Db 37 ----- 37

Qy 412 AGCAGAGAAAGAGTCAGAGCCACCGCAGGCGAGCTAGCTAGGAGCT 471  
 Db 38 -----ArgLysGluSerLysProProAlaLysLeuGlnProAlaLeuAlaGlyT 56

Qy 472 GGCTCCGCCGAGATGGGTCAAGGAGAACGGGAGGATGAACCTGGAGTCGG 530  
 Db 56 rplLeuArgProGluAspGlyGlnAlaGluGlyAlaGluaspGluLeuGluValIarg 75

RESULT 5  
 US-10-140-002-442  
 Sequence 442, Application US/10140002  
 Patent No. 6125730

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.  
 APPLICANT: Beresini, Maureen  
 APPLICANT: DePorce, Laura  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Filvaroff, Ellen  
 APPLICANT: Gao, Wei-Qiang  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Sherwood, Steven  
 APPLICANT: Smith, Victoria  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K  
 APPLICANT: Wood, William  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME  
 FILE REFERENCE: P3330RIC59  
 CURRENT APPLICATION NUMBER: US/10/140,002  
 CURRENT FILING DATE: 2002-05-06  
 Prior Application removed - See Palm or File wrapper  
 NUMBER OF SEQ ID NOS: 550  
 SEQ ID NO 442  
 LENGTH: 117  
 TYPE: PRT  
 ORGANISM: Homo Sapien  
 US-10-140-002-442

Alignment Scores:  
 Pred. No.: 1.57e-25 Length: 117  
 Score: 326.00 Matches: 74

Alignment Scores:  
 Pred. No.: 1.57e-25 Length: 117  
 Score: 326.00 Matches: 74

Percent Similarity: 53.19%      Conservative: 1  
 Best Local Similarity: 52.48%      Mismatches: 0  
 Query Match: 31.65%      Indels: 66  
 DB: 4      Gaps: 1

US-10-659-782A-11 (1-579) x US-10-140-002-442 (1-117)

Qy 112 ATGCCCTCCCAAGGAAACCGCTCTGAGCCCTCCTGGCATGCTCTGGCTGGACTTGG 171  
 Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAbleu 20

Qy 172 GCGATGGCAGGCTCACTCTGCTTGAGCCAGACTCCGGTGAACACGAG 231  
 Db 21 AlaLeuAlaGlySerSerPheLeuSerPheGluLysGlnArgValGln-Gln----- 37

Qy 232 CACAAGCCCCACATGGTTTCAGCCCTGCCACTTACAAACCAAGCTCTGTGAG 291  
 Db 37 ----- 37

Qy 292 CAGGAGCGCAATCTCTGGCTTCAGTCTCTCCAGAACAAAGGACTCTGGTGCAC 351  
 Db 37 ----- 37

Qy 352 CTCAGCTGTTCTGGAAAGGACATGGGGCTTAGTCTCAAACAGACTGTTCCTCTCC 411  
 Db 37 ----- 37

Qy 412 AGCACAGAAAGGAGCTGAGAAAGGCCAACCCAGGCCAAGCTCTAGCAGGCT 471  
 Db 38 -----ArglySerIleSlysProProAlaLysLeuGlnInProArgAlaLeuAlaGlyT 56

Qy 472 GGCTCCGGCGGAAGATGGAGGTCAGAGGAGGAGGATGAGTGAAGTCGG 530  
 Db 56 rpLeuArgProGluAspGlyGlyGlnAlaGluLysGluLysGluLeuGluVaLArg 75

RESULT 6  
 US-09-252-991A-26538  
 Sequence 26538, Application US/09252991A  
 ; GENERAL INFORMATION:  
 ; PATENT NO.: 65511795  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,190  
 ; PRIOR FILING DATE: 1998-02-18  
 ; SEQ ID NO: 30696  
 ; LENGTH: 159  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 ; US-09-252-991A-30696

Alignment Scores:  
 Pred. No.: 0.000927      Length: 181  
 Score: 1.17/0.00      Matches: 43  
 Percent Similarity: 34.62%      Conservative: 11  
 Best Local Similarity: 27.56%      Mismatches: 30  
 Query Match: 10.97%      Indels: 72  
 DB: 4      Gaps: 8

US-10-659-782A-11 (1-579) x US-09-252-991A-26538 (1-181)

Qy 349 CAGACCCAGAGCTCTTGTGCTCTGGAGAGACTGAAGCCAGAGTGGGCTGTGTG 290  
 Db 47 ArgGlyArgHisPro----ThrGlyArgArgArgSerProArgAsp---ProProAla 63

Qy 358 CAGTGGGTAGACCCAGAGTGTGGCTGTGGAGAAAGCTGAGGCCAGAGATGGGG 230  
 Db 54 SerArgGlySerProDNTYHMSVSVSFSVSSVSSVSSVSSVSSVSSVSSVSSVSS 54

Qy 418 CTCTGGAGGGGAAACAGTCTGCTTCTGCTTGTGAGCTTAAGCCCCATGCTTCAGAAA 359  
 Db 45 sSerSerAla-----AlaProProProCys-----ArgCysSerProAla-Se 25

Qy 460 GCTGGGGCTGAGCTGGCTGGCTTCCTGCT-----ACTCCCTT 419

Db 25 rValSerSerAlaAspArgThrSerSerGlyInSerProSerThrCysSerProCys 455

Qy 520 AGTCATCCTGCCCCTCTGCTTGTGCTTGTGAGCTTAAGCCCCATGCTTCAGAAA 461  
 Db 7 AlaThrSerArgSerProArgAlaArgProProSerThr--ArgCysSerProAla-Se 25

Qy 535 CAGTGGGTAGACCCAGAGTGTGGCTGTGGAGAAAGCTGAGGCCAGAGATGGGG 239



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; INFORMATION FOR SEQ ID NO: 4
; SEQUENCE CHARACTERISTICS:
; LENGTH: 355 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-483-533-41

Alignment Scores:
Pred. No.: 0.00725
Score: 109.50
Percent Similarity: 33.75%
Best Local Similarity: 27.50%
Query Match: 10.63%
DB: 3

US-10-659-782A-11 (1-579) x US-044
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Db 95 ArgProProSerAlaAlaAla
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Qy 89 CTGTCTGCAACCCAGCTGG
      |||||:::
Db 113 ArgGlyAlaGlyLeuThr
      |||||:::
Qy 137 -----GCCTCTGCTGCC
      ::::|::|:::
Db 133 SerProSerAlaCysAla
      ::::|::|:::
Qy 167 ACTTGGCCATGGCAGGCTG
      |||||::|:::
Db 152 GaaGlyAAggLYaaGaaG
      |||||::|:::
Qy 227 CTCGCCAACAGGCCAAC
      |||||::|:::
Db 171 gProProArgProProArg
      |||||::|:::
Qy 267 -----TAGAACCCAC
      |||||::|:::
Db 191 pSerGlyPraArgPProPr
      |||||::|:::
Qy 317 TCTTCTCCCTAGAGGCCAA
      |||||::|:::
Db 210 -----ProThrGlyLeu
      |||||::|:::
Qy 365 GAGGACATGGGGCTTA
      |||||::|:::
Db 227 LYARGALatPGLyProA
      |||||::|:::
Qy 425 GTCGAGAAAGCACCAGGCC
      |||||::|:::
Db 247 hrArgSerValThrPro
      |||||::|:::
Qy 467 -----AGGCTGGCTCCGGG
      |||||::|:::
Db 267 AlaProSerArgSerPro
      |||||::|:::
Qy 503 -----.
      |||||::|:::
Db 287 SerProProSerGlnGly
      |||||::|:::
Qy 536 TACCTCTGCAAGTTATGGG
      |||||::|:::
Db 300 -----.
      |||||::|:::

RESULT 10
US-09-283-471A-41
; sequence 41, Application US/09-283-471A-41
; Patent No. 6340673
; GENERAL INFORMATION:
; APPLICANT: Roizman, Bernard

```

```

APPLICANT: Chou, Joany
TITLE OF INVENTION: Method For Treating Tumorigenic Diseases
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/283,471A
FILING DATE: 04-APR-1999
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/861,233
FILING DATE: 31-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/419,853
FILING DATE: 11-APR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/483,533
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Zelle, James P.
REGISTRATION NUMBER: 28,491
REFERENCE/DOCKET NUMBER: 27773/32742A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3956
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 355 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-283-471A-41

Alignment Scores:
Pred. No.: 0.00725 Length: 355
Score: 109.50 Matches: 66
Percent Similarity: 33.75% Conservative: 15
Best Local Similarity: 27.50% Mismatches: 73
Query Match: 10.63% Indels: 86
DB: 3 Gaps: 13

US-10-659-782A-11 (1-579) x US-09-283-471A-41 (1-355)
Qy 44 AGACCTGACAGCACGGCACCCTCGCCAGGACTGCAGGCCAAC----- 88
Db 95 ArgProThrAlaAlaAlaProArgProArgProThrAla 112
Qy 89 CTGTCTGCAACCAGCTAGGGCATGCCCTCCAGGCCGGCTCGCA----- 136
Db 113 ArgGlyAlaGlyLeuThrProProArgAlaProSerAlaPheArgAla 132
Qy 137 -----GCCTCTGTCCTCG-----GCATGCTCTGGCTGG 166
Db 133 SerProSerAlaSerProArgSerThrTrpArgAlaCysAspAlaAla 152
Qy 167 ACTTGCCATGGCAGGCTCCAGTTCTCTGAGCCCTGAACCAAGAGTCAGGTGAGAC 226
Db 152 GalAlaArgGlyArgSerProProArgProProArgProProArgPro 171
Qy 227 CTCGCCAACGCCAACATGTTCAAGGCCCTCCACT----- 266

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LENGTH: 174  
 TYPE: PRT  
 ORGANISM: *Pseudomonas aeruginosa*  
 US-09-252-991A-19399

**Alignment Scores:**  
 Pred. No.: 0.00785 Length: 174  
 Score: 108.00 Matches: 48  
 Percent Similarity: 34.86% Conservative: 13  
 Best Local Similarity: 27.43% Mismatches: 66  
 Query Match: 10.12% Indels: 48  
 DB: 4 Gaps: 9

**US-10-659-782A-11 (1-579) x US-09-252-991A-24452 (1-428)**

Qy 577 CCACCCCTCTCGTGCACAGRAGATAAAACTGCAAGGTACCGACCCGACTTCCAGT	Db 11 ProProSer-----ArgArgSerGlyProAlaProAlaPro-----ArgAlaProGly	Qy 517 TCACTCTGCCCTCTGCTGACCTCCACCTCGGGGAGGAGCCTGCTAGAGCT	Db 27 SerAlaGlySerProArgAla--SerProGlyGlyCysArgleProProArgArg	Qy 457 CGGGCTTAGGACTCTAACCCCCATGTCCTCCAGAACAGTGAGGTCAAGCA	Db 46 ArgGlySerSer-----SerPro 51	Qy 397 GTCNGTTRAGGACTCTAACCCCCATGTCCTCCAGAACAGTGAGGTCAAGCT	Db 52 ValArgProGlyArgProGlyHisLeuArgArgGlyLeuArgAlaAlaProArgPro	Qy 337 CCTTTGTGCTCTGGAGAGACTGAACCCAGAGACTGCTCCGGTACAGA	Db 72 SerArgCysSerGlySerGlySerArgProArgSerGlySerAlaProGlySerArg	Qy 277 GCTGGTGTGTAAGGGCTGAGCAACATGTGGCTTGTGGCTCTCTGCT	Db 92 -----ArgThrProArgCysAlaAlaProProSer 101	Qy 220 CCTGGACTCTCTGGTGTGAGGCTCAGGAAGCTGG-----AGCTGCA	Db 102 Pro-----GlyArgArgArgSerThrProGlyProGly	Qy 166 CCAGCGAGCATCCGAGAGAGGGCTGAGACGGTCCCTG	Db 116 SerArgArgLeuThrAlaGlyArgProGlyCysArgAspTrpProValArgThrGly	Qy 121 -----GGGGGGATGGCTCAAGCTGGTGAAG 92	Db 136 LysArgArgArgProGlyArgSerHisProProValArgGlyCysBarg	Qy 174 Length: 174 Matches: 48 Conservative: 13 Mismatches: 66 Indels: 48 Gaps: 9
Qy 44 AGACCTGACAGCACAGGCCACACTCGCCAGGACTGCAGCCAACCTGCTG	Db 175 ArgAlaAspArgProGlyThrTyAlaProGly-----ArgProGlnArg	Qy 44 AGACCTGACAGCACAGGCCACACTCGCCAGGACTGCAGCCAACCTGCTG	Db 190 LeuArgProLeuProSerAlaGlyProSerArgArg	Qy 104 CTGAGCCATGCCCTCCAGGACCTGAGCCCTGCAGCTCTGGATGCTGGC	Db 202 TrpArgLeu-HisGlyArgLeuLeuLeuProGlnGlyCysArgHisArg	Qy 224 GACCTCCC-----CAAACCCCCACATGTTGTCAGCCCTGCACCTTA	Db 221 1ProArgProGlycysProAlaArgGlyAspProArgHisArgLeuSerProTrpAlnAr	Qy 269 GCAACCAGCTCTGACCTGGAGCAGGGCAGGGCTGAGTCTCTCCAGA	Db 241 gHsPro-----GlyTyrLeuLeuProTrpOAr	Qy 329 GCACAAAGGACTCTGGCTGACCTCACTGTTCTGGAAAGCACATGGGCTT	Db 250 GArgCysAlaValArgLeuAspPro-----TrpArgSerAlaGly	Qy 389 TAAACAGACTGTTCCCTCCAGAGAAAGGAGTCGAAGAACGCCAAAGCT	Db 264 -ArgIleProValLeuProArgLeuArgArgGlyLeuArgArgGlyLe	Qy 449 GCAGCCGAGCTCTAGCAGG-----GGCTCGC-----CGGAAAGATGGAGCTAGC	Db 283 uG1nProGlnLeuSerAlaGlyProTrpGlnArgLeuGlyLysAlaAr	Qy 500 AGAAAGGGAGAGGAGTGAACCTGGAAAGTCCEGGTCTGG	Db 303 9ArgArgLeuArgAlaAspArgArgLeuArgProGly	RESULT 14 US-09-252-991A-20615 ; Sequence 20615, Application US/09252991A ; Patent No. 6551795 ; GENERAL INFORMATION: ; APPLICANT: Marc J. Rubenfield et al. ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS ; FILE REFERENCE: 107196-136 ; CURRENT APPLICATION NUMBER: US/09/252-991A ; CURRENT FILING DATE: 1999-02-18 ; PRIOR APPLICATION NUMBER: US 60/074,788 ; PRIOR FILING DATE: 1998-02-18 ; NUMBER OF SEQ ID NOS: 33142 ; SEQ ID NO: 20615 ; LENGTH: 164 ; TYPE: PRT ; ORGANISM: <i>Pseudomonas aeruginosa</i> ; US-09-252-991A-20615
Qy 44 AGACCTGACAGCACAGGCCACACTCGCCAGGACTGCAGCCAACCTGCTG	Db 175 ArgAlaAspArgProGlyThrTyAlaProGly-----ArgProGlnArg	Qy 44 AGACCTGACAGCACAGGCCACACTCGCCAGGACTGCAGCCAACCTGCTG	Db 190 LeuArgProLeuProSerAlaGlyProSerArgArg	Qy 104 CTGAGCCATGCCCTCCAGGACCTGAGCCCTGCAGCTCTGGATGCTGGC	Db 202 TrpArgLeu-HisGlyArgLeuLeuLeuProGlnGlyCysArgHisArg	Qy 224 GACCTCCC-----CAAACCCCCACATGTTGTCAGCCCTGCACCTTA	Db 221 1ProArgProGlycysProAlaArgGlyAspProArgHisArgLeuSerProTrpAlnAr	Qy 269 GCAACCAGCTCTGACCTGGAGCAGGGCAGGGCTGAGTCTCTCCAGA	Db 241 gHsPro-----GlyTyrLeuLeuProTrpOAr	Qy 329 GCACAAAGGACTCTGGCTGACCTCACTGTTCTGGAAAGCACATGGGCTT	Db 250 GArgCysAlaValArgLeuAspPro-----TrpArgSerAlaGly	Qy 389 TAAACAGACTGTTCCCTCCAGAGAAAGGAGTCGAAGAACGCCAAAGCT	Db 264 -ArgIleProValLeuProArgLeuArgArgGlyLeuArgArgGlyLe	Qy 449 GCAGCCGAGCTCTAGCAGG-----GGCTCGC-----CGGAAAGATGGAGCTAGC	Db 283 uG1nProGlnLeuSerAlaGlyProTrpGlnArgLeuGlyLysAlaAr	Qy 500 AGAAAGGGAGAGGAGTGAACCTGGAAAGTCCEGGTCTGG	Db 303 9ArgArgLeuArgAlaAspArgArgLeuArgProGly	RESULT 14 US-09-252-991A-20615 ; Sequence 20615, Application US/09252991A ; Patent No. 6551795 ; GENERAL INFORMATION: ; APPLICANT: Marc J. Rubenfield et al. ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS ; FILE REFERENCE: 107196-136 ; CURRENT APPLICATION NUMBER: US/09/252-991A ; CURRENT FILING DATE: 1999-02-18 ; PRIOR APPLICATION NUMBER: US 60/074,788 ; PRIOR FILING DATE: 1998-02-18 ; NUMBER OF SEQ ID NOS: 33142 ; SEQ ID NO: 20615 ; LENGTH: 164 ; TYPE: PRT ; ORGANISM: <i>Pseudomonas aeruginosa</i> ; US-09-252-991A-20615
Qy 44 AGACCTGACAGCACAGGCCACACTCGCCAGGACTGCAGCCAACCTGCTG	Db 175 ArgAlaAspArgProGlyThrTyAlaProGly-----ArgProGlnArg	Qy 44 AGACCTGACAGCACAGGCCACACTCGCCAGGACTGCAGCCAACCTGCTG	Db 190 LeuArgProLeuProSerAlaGlyProSerArgArg	Qy 104 CTGAGCCATGCCCTCCAGGACCTGAGCCCTGCAGCTCTGGATGCTGGC	Db 202 TrpArgLeu-HisGlyArgLeuLeuLeuProGlnGlyCysArgHisArg	Qy 224 GACCTCCC-----CAAACCCCCACATGTTGTCAGCCCTGCACCTTA	Db 221 1ProArgProGlycysProAlaArgGlyAspProArgHisArgLeuSerProTrpAlnAr	Qy 269 GCAACCAGCTCTGACCTGGAGCAGGGCAGGGCTGAGTCTCTCCAGA	Db 241 gHsPro-----GlyTyrLeuLeuProTrpOAr	Qy 329 GCACAAAGGACTCTGGCTGACCTCACTGTTCTGGAAAGCACATGGGCTT	Db 250 GArgCysAlaValArgLeuAspPro-----TrpArgSerAlaGly	Qy 389 TAAACAGACTGTTCCCTCCAGAGAAAGGAGTCGAAGAACGCCAAAGCT	Db 264 -ArgIleProValLeuProArgLeuArgArgGlyLeuArgArgGlyLe	Qy 449 GCAGCCGAGCTCTAGCAGG-----GGCTCGC-----CGGAAAGATGGAGCTAGC	Db 283 uG1nProGlnLeuSerAlaGlyProTrpGlnArgLeuGlyLysAlaAr	Qy 500 AGAAAGGGAGAGGAGTGAACCTGGAAAGTCCEGGTCTGG	Db 303 9ArgArgLeuArgAlaAspArgArgLeuArgProGly	RESULT 14 US-09-252-991A-20615 ; Sequence 20615, Application US/09252991A ; Patent No. 6551795 ; GENERAL INFORMATION: ; APPLICANT: Marc J. Rubenfield et al. ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS ; FILE REFERENCE: 107196-136 ; CURRENT APPLICATION NUMBER: US/09/252-991A ; CURRENT FILING DATE: 1999-02-18 ; PRIOR APPLICATION NUMBER: US 60/074,788 ; PRIOR FILING DATE: 1998-02-18 ; NUMBER OF SEQ ID NOS: 33142 ; SEQ ID NO: 20615 ; LENGTH: 164 ; TYPE: PRT ; ORGANISM: <i>Pseudomonas aeruginosa</i> ; US-09-252-991A-20615

**Alignment Scores:**  
 Pred. No.: 0.0157 Length: 51  
 Score: 105.00 Matches: 51  
 Percent Similarity: 32.99% Conservative: 14  
 Best Local Similarity: 25.89% Mismatches: 68  
 Query Match: 4 0.0157 Length: 51  
 DB: 4 Gaps: 8

Query Match: 9.84% Indels: 64 Gaps: 10 DB: US-10-659-782A-11 (1-579) x US-09-252-991A-17910 (1-409)

DE: 4 4 Gaps: 10 DB: US-10-659-782A-11 (1-579) x US-09-252-991A-17910 (1-409)

Qy 574 CCCTCCTGCCACAGGATATAAACTGGAGGTACCCGACTTCA 515 Qy 117 CTCGCCAGGGACCGTCCTGCAGCCTCCCTGGCTGGCTCTGGCTCAT 176  
 Ds 7 ProlysThrProSerArg ::::: ValProSerArgThrSerArgSer 21 Ds 194 IleSerArgSerHisCysSerProProArgThrSerArgSerGlyMetGly--- 212

Qy 514 TCCCTGCCCCCT---- 503 Qy 177 GGAGGCTCCAGCTCTGCCCTGAACACAGAGTCAGGTAGAACCCCAA 236  
 Db 22 AlaSerArgProCysArgSerIleAlaAlaLhrTrpSerThrAlaArgProMetPro 41 Qy 213 -----ArgSerGinGlyLyrGlnArgGlySer 221  
 Qy 502 ---TCCTGCTGACCTCCCTCTCCGGGGGAGCCAGCTGGCTGCAGC 446 Qy 237 AGCCACATGTTGCCGCACTTAGCAC-----CAGTCCTGACCTGGA 290  
 Db 42 AsnSerAlaGlyProIleArgSerGlySerSerArgAlaMetArgAlaThrSer 61 Ds 222 SerProAlaSerCysSerIleArgAlaArg-SerSerGlycSerGlycSer 241  
 Qy 445 TRGGCTGGCTCTGGCTCTGGACTCTCTCTCTCTGGAAAGGGAAAAGTCGTTAGGA 386 Qy 291 GCAGCACCGCCATCTC-----306  
 Db 62 CysAla---ThrAlaArgArgSerSerMetAspAlaProPheProTrpThrArgGluIleThr 261 Ds 241 ArgProArgArgSerSerMetAspAlaProPheProTrpThrArgGluIleThr 261  
 Qy 385 CTCTAAGCCCCATATGTCCTCCAGAACAGTAGGTAGAACCCAGACTCCATTGCT 326 Qy 307 -----TGGGCT---TCAAGCTCTCCAGAGCACAAAGGACTCTGGCTC 347  
 Db 68 -----ThrProArgPro-----ThrProArgPro-----ThrProArgPro 71 Qy 348 TGACTCACT-----GTTCTGGAGGAGCATGGGGCTAGAGTCCTAACAG 395  
 Qy 325 GGGAGAAACTGAAGGCCAGAGATGCCCTGCTGCTCAAGTCAGTCGTTGCTAA 266 Ds 261 rPheSerAlaGluAlaBnTrpSerLeuSerGlySerArgSerIleAlaAspGlySer 281  
 Db 72 GlyArgArgArgNetProArg-----ArgSerGlyProAlaLhrArgSer 89 Qy 396 ACTGTTTCCCCT-----TCACCGAGAAAGAGTCGAAGAGCCACAGGCCAAG 446  
 Qy 265 GRCGCAAGGGCTGGAA---CAACATCTGGGGCTTCACCTGGACTC 212 Ds 301 GargPheAlaProGlyLyrArgSerGlySerArgAspArgCysValAlaAsp 321  
 Db 90 ThrThrSerCysArgCysAlaArgThrSerSerAlaGlySerSerValArgPro 109 Qy 447 CT-----GCAGCCCCGAGCTCTAGCAGCTGGCTCCG-----478  
 Qy 211 TCCTGGTCTGAGGGCTGGAAAGCTGCCAGGAGCATGTC 152 Ds 321 laProThrAlaArgCysGlySerAlaProAlaArgSerArgProSerProTrpArgGly 341  
 Db 110 ThrGly---ArgGlySerAlaSer-----AlaProAlaArgSerThr 122 Qy 479 -----CCCGGA- 484  
 Qy 151 CGAGGAGCAGGGAGGCTGCCAGCTGGCTCCCTGGGGCATGCTGGTTGCGA 92 Ds 341 rgAspGlyGlySerArgArgAlaLhrArgLeuAlaGlyArgArgTrpTrpProGly 361  
 Db 123 AlaProMetTrpArgCysTrpProArgGlySerSerThrArgTrpProAlaArgSerAlaArg 142 Qy 485 -----AGATGGAGGTCAACCAGAAGGGCAGAGGATGAACT- 520  
 Qy 91 CAGGTGGCCCTGGAGTTC---TGGCGAGTGTGCTGCCAGTGTCAAGCT 44 Ds 361 erGlyProAlaProArgArgLeuArgTrpArgTrpArgProGlyArgGlyTrpSerA 381  
 Db 143 ArgSerAlaAlaLhrSerCysTrpArgSerAlaSerAlaSerThrArgAla 159 Qy 521 -----GGAAGTCGGCTCGG-----535  
 RESULT 15 Ds 381 laSerAspAlaArgHisArgArgAlaLhrArgSerProGlyArg 394  
 US-09-252-991A-17910 ; Sequence 17910, Application US/09252991A  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: 107196\_136  
 ; CURRENT APPLICATION NUMBER: US/09/252-991A  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 17910  
 ; LENGTH: 409  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-17910  
 Alignment Scores:  
 Preq. No.: 0.0225 Length: 409  
 Score: 105.00 Matches: 54  
 Percent Similarity: 34.88% Conservative: 21  
 Best Local Similarity: 25.12% Mismatches: 52  
 Query Match: 10.19% Indels: 88

Search completed: February 1, 2005, 13:30:31  
 Job time: 31.5 secs

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